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10/812,342	03/29/2004	Dong Tack Suh	51278/RAH/C1015	2547	
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CHRISTIE, PARKER & HALE, LLP			FERGUSON, MICHAEL P		
PO BOX 7068 PASADENA, CA 91109-7068			ART UNIT	PAPER NUMBER	
,			3679		
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(a)		
		Application No.	Applicant(s)		
Office Action Comments		10/812,342	SUH, DONG TACK		
	Office Action Summary	Examiner	Art Unit		
		Michael P. Ferguson	3679		
Period fo	The MAILING DATE of this communication a r Reply	appears on the cover sheet with th	e correspondence address	•	
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REF CHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory peri- re to reply within the set or extended period for reply will, by sta- eply received by the Office later than three months after the ma- and patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply bood will apply and will expire SIX (6) MONTHS flute, cause the application to become ABANDO	ION. e timely filed rom the mailing date of this communical DNED (35 U.S.C. § 133).		
Status	,				
2a)□	Responsive to communication(s) filed on 29 This action is FINAL . 2b) To Since this application is in condition for allow	his action is non-final.	prosecution as to the merits	s is	
	closed in accordance with the practice unde	r <i>Ex parte Quayle</i> , 1935 C.D. 11,	, 453 O.G. 213.		
Dispositi	on of Claims				
5)⊠ 6)⊠ 7)⊠	Claim(s) <u>1-38</u> is/are pending in the application of the above claim(s) is/are with definition of the above claim(s) is/are with definition of the above claim(s) <u>1-12,18,19 and 38</u> is/are allowed. Claim(s) <u>13-17,20,21,23-32 and 34-37</u> is/are Claim(s) <u>22 and 33</u> is/are objected to. Claim(s) are subject to restriction and	rawn from consideration. e rejected.			
Applicati	on Papers				
10)⊠	The specification is objected to by the Examing The drawing(s) filed on 29 March 2004 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the corrupte oath or declaration is objected to by the	e: a) accepted or b) objecte he drawing(s) be held in abeyance. ection is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.12		
Priority u	inder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
2) Notice 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date 07/30/04,07/12/05.	4) Interview Summ Paper No(s)/Mai 5) Notice of Informs 6) Other: <u>I.D.S. 02/</u>	il Date al Patent Application (PTO-152)		

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DETAILED ACTION

Claim Objections

1. Claim 19 is objected to because of the following informalities:

Claim 19 (line 1) recites "to claim 1". It should recite --to claim 2--.

For the purpose of examining the application, it is assumed that appropriate correction has been made.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 13,15-17,20-22 and 24-32 and 34-37 are rejected under 35 U.S.C. 102(b) as being anticipated by Konig & Meyer (DE 36 04 497).

As to claim 13, Konig & Meyer discloses a pull pin assembly, comprising:

a first rod or pole 1, having a first hole;

a second rod or pole **9**, having a second hole, the second rod or pole being slidably contained within the first rod or pole, so that the first hole is superimposable on the second hole;

a main body 11, having a central hollow dimensioned to contain the first rod or pole;

a pull pin body integral with the main body and extending radially outward from the central hollow, the pin body having a space therein extending into the central hollow;

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a pull pin 13 slidably disposed in the space of the pull pin body to move from a first position extending into the central hollow through the first hole to a second position outside of the central hollow, the pull pin having a circumferential stop;

a pull pin plug **30** fit into the space of the pin body, the pull pin plug having a hollow dimensioned to slidably contain the pull pin; and

a biasing member 18 biasing the pull pin toward the first position to relatively lock the first rod or pole and the second rod or pole when the first hole is superimposed on the second hole;

wherein the biasing member is disposed to bias the pull pin between the circumferential stop and the pull pin plug, and wherein the circumferential stop is dimensioned to prevent the pull pin from passing completely through the first hole in the first position (Figures 1-3).

As to claim 15, Konig & Meyer discloses a pull pin assembly wherein the first rod or pole 1 comprises an end and the main body 11 extends around the end of the first rod or pole (Figure 3).

As to claim 16, Konig & Meyer discloses a pull pin assembly wherein the circumferential stop is dimensioned to prevent more than a predetermined length of the pull pin from extending into the central hollow in the first position (Figure 3).

As to claim 17, Konig & Meyer discloses a pull pin assembly wherein the main body 11 comprises a resilient tab 22 (tab 22 made of a resilient material) having a boss 21 thereon extending into the central hollow to engage a second notch or hole 20 of the first rod or pole 21 (Figure 2).

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As to claim 20, Konig & Meyer discloses a pull pin assembly, comprising: a first rod or pole 1, having a first hole;

a second rod or pole **9**, having a second hole, the second rod or pole being slidably contained within the first rod or pole, so that the first hole is superimposable on the second hole;

a main body 11 having a central hollow dimensioned to contain the first rod or pole;

a pull pin body adjacent to the main body and extending outward from the central hollow, the pin body having a space therein extending into the central hollow;

a pull pin 13 disposed in the space of the pull pin body to move from a first position extending into the second hole to a second position not extending into the second hole; and

a biasing member **18** biasing the pull pin toward the first position to relatively lock the first rod or pole and the second rod or pole when the first hole is superimposed on the second hole.

wherein the main body is fixed against movement along the first rod or pole when the pull pin is in the second position (Figures 1-3).

As to claim 21, Konig & Meyer discloses a pull pin assembly wherein the first rod or pole 1 comprises a third notch or hole 20 and wherein the main body 11 is fixed against movement along the first rod or pole in the second position by a boss 21 extending between the main body and the first rod or pole (Figure 2).

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As to claim 22, Konig & Meyer discloses a pull pin assembly wherein the boss 21 is formed on a resilient tab 22 (tab 22 made of resilient material) on the main body 11, the boss extending into the central hollow to engage the third notch or hole 20 of the first rod or pole 1 (Figure 2).

As to claim 24, Konig & Meyer discloses a pull pin assembly wherein the main body 11 extends around an end of the first rod or pole 1 (Figure 3).

As to claim 25, Konig & Meyer discloses a pull pin assembly wherein the pull pin body is integral with the main body 11 (Figure 3).

As to claim 26, Konig & Meyer discloses a pull pin assembly comprising a pull pin plug **30** having a hollow dimensioned to slidably contain the pull pin **13**; and

a circumferential stop on the pull pin dimensioned to prevent more than a predetermined length of the pull pin from extending into the central hollow in the first position,

wherein the biasing member **18** is disposed to bias the pull pin between the circumferential stop and the pull pin plug **30** (Figure 3).

As to claim 27, Konig & Meyer discloses a pull pin assembly wherein the pull pin plug 30 is friction fit into the space of the pull pin body (Figure 3).

As to claim 28, Konig & Meyer discloses a pull pin assembly, comprising: a first rod or pole 1, having a first hole;

a second rod or pole **9**, having a second hole, the second rod or pole being slidably contained within the first rod or pole, so that the first hole is superimposable on the second hole;

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a main body 11, having a central hollow dimensioned to contain the first rod or pole;

a pull pin body adjacent to the main body and extending outward from the central hollow, the pin body having a space therein extending into the central hollow;

a pull pin **13** disposed in the space of the pull pin body to move from a first position extending into the second hole to a second position not extending into the second hole, the pull pin having a circumferential stop;

a pull pin plug 30 having a hollow dimensioned to slidably contain the pull pin;

a biasing member **18** biasing the pull pin toward the first position to relatively lock the first rod or pole and the second rod or pole when the first hole is superimposed on the second hole;

wherein the biasing member is disposed to bias the pull pin between the circumferential stop and the pull pin plug, and wherein the circumferential stop is dimensioned to prevent more than a predetermined length of the pull pin from extending into the central hollow in the first position (Figures 1-3).

As to claim 29, Konig & Meyer discloses a pull pin assembly wherein the pull pin plug 30 is friction fit into the space of the pull pin body (Figure 3).

As to claim 30, Konig & Meyer discloses a pull pin assembly wherein the main body 11 is fixed against movement along the first rod or pole 1 when the pull pin 13 is in the second position (Figure 3).

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As to claim 31, Konig & Meyer discloses a pull pin assembly wherein the main body 11 is fixed against movement along the first rod or pole 1 by a boss 21 extending between the main body and the first rod or pole (Figure 2).

As to claim 32, Konig & Meyer discloses pull pin assembly wherein the first rod or pole 1 comprises a third notch or hole 20 and wherein the boss 21 is formed on a resilient tab 22 (tab 22 mad of resilient material), the boss extending into the central hollow to engage the third notch or hole of the first rod or pole (Figure 2).

As to claim 34, Konig & Meyer discloses a pull pin assembly wherein the first rod or pole 1 extends vertically above (a lower end portion of) the second rod or pole 9 (Figure 3).

As to claim 35, Konig & Meyer discloses a pull pin assembly wherein the main body 11 extends around an end of the first rod or pole 1 (Figure 3).

As to claim 36, Konig & Meyer discloses a pull pin assembly wherein the pull pin body is integral with the main body 11 (Figure 3).

As to claim 37, Konig & Meyer discloses a pull pin assembly, comprising: a first rod or pole 1, having a first hole and an end;

a second rod or pole **9**, having a second hole, the second rod or pole being slidably contained within the first rod or pole, so that the first hole is superimposable on the second hole;

a main body 11, having a central hollow dimensioned to contain the first rod or pole, the main body extending around the end of the first rod or pole;

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a pull pin body adjacent to the main body and extending outward from the central hollow, the pin body having a space therein extending into the central hollow;

a pull pin 13 disposed in the space of the pull pin body to move from a first position extending into the second hole to a second position not extending into the second hole; and

a biasing member **18** biasing the pull pin toward the first position to relatively lock the first rod or pole and the second rod or pole when the first hole is superimposed on the second hole (Figures1- 3).

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to à patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 13-16,20,24-30 and 34-37 are rejected under 35 U.S.C. 102(e) as being anticipated by Takayama (US 6,508,262).

As to claim 13, Takayama discloses a pull pin assembly, comprising:

a first rod or pole 11, having a first hole;

a second rod or pole **10**, having a second hole, the second rod or pole being slidably contained within the first rod or pole, so that the first hole is superimposable on the second hole;

a main body **5,12**, having a central hollow dimensioned to contain the first rod or pole;

a pull pin body integral with the main body and extending radially outward from the central hollow, the pin body having a space therein extending into the central hollow;

a pull pin **30** slidably disposed in the space of the pull pin body to move from a first position extending into the central hollow through the first hole to a second position outside of the central hollow, the pull pin having a circumferential stop;

a pull pin plug fit into the space of the pin body, the pull pin plug having a hollow dimensioned to slidably contain the pull pin; and

a biasing member **31** biasing the pull pin toward the first position to relatively lock the first rod or pole and the second rod or pole when the first hole is superimposed on the second hole;

wherein the biasing member is disposed to bias the pull pin between the circumferential stop and the pull pin plug, and wherein the circumferential stop is dimensioned to prevent the pull pin from passing completely through the first hole in the first position (Figures 1,3 and 4).

As to claim 14, Takayama discloses a pull pin assembly wherein the pull pin 30 comprises a circumferential tongue 34, wherein the pull pin plug comprises a radial groove, wherein, the pull pin has a first engageable position in which the circumferential tongue is movable in the radial groove, and a second, disengaged position, wherein the pull pin is pulled against a biasing force of the biasing member 31 to come out of the

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radial groove and rotated so that the circumferential tongue is biased against the pull pin plug (Figures 3 and 4).

As to claim 15, Takayama discloses a pull pin assembly wherein the first rod or pole 11 comprises an end and the main body 5,12 extends around the end of the first rod or pole (Figure 3).

As to claim 16, Takayama discloses a pull pin assembly wherein the circumferential stop is dimensioned to prevent more than a predetermined length of the pull pin 30 from extending into the central hollow in the first position (Figure 3).

As to claim 20, Takayama discloses a pull pin assembly, comprising:

a first rod or pole 11, having a first hole;

a second rod or pole **10**, having a second hole, the second rod or pole being slidably contained within the first rod or pole, so that the first hole is superimposable on the second hole;

a main body **5,12** having a central hollow dimensioned to contain the first rod or pole;

a pull pin body adjacent to the main body and extending outward from the central hollow, the pin body having a space therein extending into the central hollow;

a pull pin **30** disposed in the space of the pull pin body to move from a first position extending into the second hole to a second position not extending into the second hole; and

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a biasing member **31** biasing the pull pin toward the first position to relatively lock the first rod or pole and the second rod or pole when the first hole is superimposed on the second hole.

wherein the main body is fixed against movement along the first rod or pole when the pull pin is in the second position (Figures 1,3 and 4).

As to claim 24, Takayama discloses a pull pin assembly wherein the main body 5,12 extends around an end of the first rod or pole 11 (Figure 3).

As to claim 25, Takayama discloses a pull pin assembly wherein the pull pin body is integral with the main body 5 (Figure 3).

As to claim 26, Takayama discloses a pull pin assembly comprising a pull pin plug having a hollow dimensioned to slidably contain the pull pin 30; and

a circumferential stop on the pull pin dimensioned to prevent more than a predetermined length of the pull pin from extending into the central hollow in the first position,

wherein the biasing member **31** is disposed to bias the pull pin between the circumferential stop and the pull pin plug (Figure 3).

As to claim 27, Takayama discloses a pull pin assembly wherein the pull pin plug is friction fit into the space of the pull pin body (Figure 3).

As to claim 28, Takayama discloses a pull pin assembly, comprising: a first rod or pole **11**, having a first hole;

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a second rod or pole **10**, having a second hole, the second rod or pole being slidably contained within the first rod or pole, so that the first hole is superimposable on the second hole;

a main body **5,12**, having a central hollow dimensioned to contain the first rod or pole;

a pull pin body adjacent to the main body and extending outward from the central hollow, the pin body having a space therein extending into the central hollow;

a pull pin **30** disposed in the space of the pull pin body to move from a first position extending into the second hole to a second position not extending into the second hole, the pull pin having a circumferential stop;

a pull pin plug having a hollow dimensioned to slidably contain the pull pin; and a biasing member 31 biasing the pull pin toward the first position to relatively lock the first rod or pole and the second rod or pole when the first hole is superimposed on the second hole;

wherein the biasing member is disposed to bias the pull pin between the circumferential stop and the pull pin plug, and wherein the circumferential stop is dimensioned to prevent more than a predetermined length of the pull pin from extending into the central hollow in the first position (Figures 1,3 and 4).

As to claim 29, Takayama discloses a pull pin assembly wherein the pull pin plug is friction fit into the space of the pull pin body (Figure 3).

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As to claim 30, Takayama discloses a pull pin assembly wherein the main body 5,12 is fixed against movement along the first rod or pole 11 when the pull pin 30 is in the second position (Figure 3).

As to claim 34, Takayama discloses a pull pin assembly wherein the first rod or pole **11** extends vertically above (a lower end portion of) the second rod or pole **10** (Figure 3).

As to claim 35, Takayama discloses a pull pin assembly wherein the main body **5,12** extends around an end of the first rod or pole **11** (Figure 3).

As to claim 36, Takayama discloses a pull pin assembly wherein the pull pin body is integral with the main body 5 (Figure 3).

As to claim 37, Takayama discloses a pull pin assembly, comprising:

a first rod or pole 11, having a first hole and an end;

a second rod or pole **10**, having a second hole, the second rod or pole being slidably contained within the first rod or pole, so that the first hole is superimposable on the second hole;

a main body **5,12**, having a central hollow dimensioned to contain the first rod or pole, the main body extending around the end of the first rod or pole;

a pull pin body adjacent to the main body and extending outward from the central hollow, the pin body having a space therein extending into the central hollow;

a pull pin **30** disposed in the space of the pull pin body to move from a first position extending into the second hole to a second position not extending into the second hole; and

a biasing member **31** biasing the pull pin toward the first position to relatively lock the first rod or pole and the second rod or pole when the first hole is superimposed on the second hole (Figures 1,3 and 4).

Allowable Subject Matter

- 6. Claims 1-12,18,19 and 38 are allowed.
- 7. Claims 23 and 33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. The following is a statement of reasons for the indication of allowable subject matter:

As to claim 1, Konig & Meyer discloses the claimed pull pin assembly with the exception of comprising a main body having at least one resilient tab, the resilient tab being cut out from the main body and having a boss thereon extending into the central hollow to engage the second notch or hole of the first rod or pole.

As to claim 23, Konig & Meyer discloses the claimed pull pin assembly with the exception of wherein the resilient tab is cut out from the main body.

As to claim 33, Konig & Meyer discloses the claimed pull pin assembly with the exception of wherein the resilient tab is cut out from the main body.

As to claim 38, Konig & Meyer discloses the claimed pull pin assembly with the exception of comprising a main body having two resilient tabs, the resilient tabs being cut out from substantially opposite sides of the main body and having bosses thereon, each boss extending into the central hollow to engage a different one of the second

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notch or hole and the third notch or hole and to fix the main body against movement along the first rod or pole.

There is no teaching or suggestion, absent the applicants' own disclosure, for one having ordinary skill in the art at the time the invention was made to modify the pull pin assembly as disclosed by Konig & Meyer to have the above mentioned elemental features.

Conclusion

The prior art made of record and not relied upon is considered pertinent to the applicant's disclosure. The following patents show the state of the art with respect to pull pin assemblies:

Takahashi (US 3,780,974) and Hedman (US 1,044,523) are cited for pertaining to assemblies comprising a first rod, a second rod, a main body, a pull pin body, a pull pin and a biasing member.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael P. Ferguson whose telephone number is (571)272-7081. The examiner can normally be reached on M-F (8:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on (571)272-7087. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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MPF

09/13/05

DANIEL P. STODOLA SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600

Jamel P Stodola

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